SERVICE MANUAL

MODEL NO.

4 BAND STEREO RADIO CASSETTE RECORDER

CS-360

Code No. 29-360-000-91

TYPE. H,BH,HU,BHU,HG,BHG

DATE OF ISSUE 3/1982

SPECIFICATIONS

GENERAL

Semiconductors:	4 ICs, 22 transistors, 1 FET, 19 diodes, 6 LED's
Power source:	Batteries DC 9V (UM-2 x 6) AC110 ~ 120V/220 ~ 240V switchable 50/60 Hz Household AC power (thru AC adaptor)
Speakers:	100mmϕ x 2
Dimensions (W x H x D):	420 x 147.5 x 76 (mm)
Weight:	2 kg

RADIO SECTION

Frequency range:	FM 87 ~ 109 MHz SW_2 6.8 ~ 22.5 MHz SW_1 2.1 ~ 7.3 MHz MW515 ~ 1,650 kHz
Intermediate frequency:	FM 10.7 ±0.3 MHz SW_2, SW_1, MW, 468 kHz
Sensitivity:	FM (IHF, distortion 3%) 19 ± 4 dB (at 88, 96 MHz) 21 ± 4 dB (at 108 MHz) SW_2 (S/N 10 dB) 30 ± 5 dB (at 7 MHz) 24 ± 5 dB (at 14 MHz) 12 ± 6 dB (at 22 MHz) SW_1 (S/N 10 dB) 45 ± 4 dB (at2.3 MHz) 42 ± 4 dB (at 4.0 MHz) 44 ± 4 dB (at 7.0 MHz) MW (S/N 10 dB) 48 ± 4 dB (at 600 kHz) 45 ± 4 dB (at 1,000 kHz) 45 ± 4 dB (at 1,440 kHz)
FM stereo separation:	20 ± 5 dB (at 1 kHz)

TAPE RECORDER SECTION

Tape speed:	4.8 cm/s.
Recording system:	AC bias
Erasing system:	AC erase
Record bias frequency:	$55\ ^{+0.5}_{-0}$ kHz
Distortion:	Less than 1,0% (PB) Less than 1,5% (REC/PB)
Frequency response:	Normal tape: 40 ~ 12,500 Hz
Signal to noise ratio: (Un-weighted)	More than 45/43 dB [DC/AC] (PB) More than 40/38 dB [DC/AC] (REC/PB)
Erasing ratio:	More than 60 dB
Separation:	More than 40 ± 6 dB (REC/PB)
Output:	2.5W + 2.5W (MAX)
FF time:	90 ± 5s. (at C-60)
Rewind time;	90 ± 5s. (at C-60)
Automatic stop system:	Mechanical auto stop
Pinch roller pressure:	125 ±15 g
Wow and flutter:	Less than 0.08% (WRMS)
Take-up torque:	$35\ ^{+15}_{-5}$ g-cm
FF & rewind torque:	$100\ ^{+20}_{-10}$ g-cm
Input terminals:	MIC: 0.3mV/3kΩ LINE IN: 300V/47kΩ
Output terminals:	LINE OUT Pin x 2 EXT, SP 2.75V/3Ω PHONES 0.15V/18Ω

- Specifications and external appearance are subject to change without notice due to product improvement.

AIWA Co., Ltd. Tokyo Japan

DISASSEMBLY INSTRUCTION

1. Removing the Back cover

1) Remove 6 screws. (See figure 1)

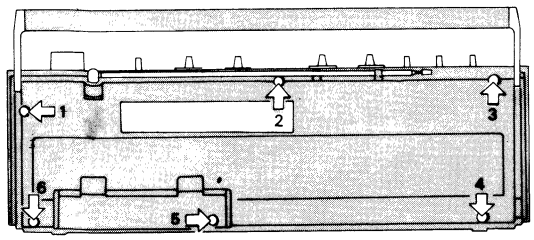


Fig. 1

2. Removing the REC/PB circuit board

1) Remove the 4 knobs. (See figure 2)
2) Remove the cushion and 4 screws. (See figure 2)

3. Removing the Tuner circuit board

1) Remove 4 screws. (See figure 2)

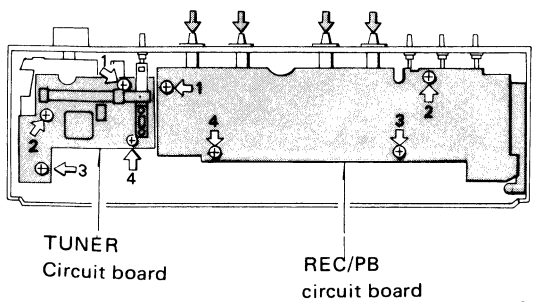


Fig. 2

4. Removing the main chassis

1) Remove the 9 knobs. (See figure 2, 3)
2) Remove 3 screws. (See figure 3)

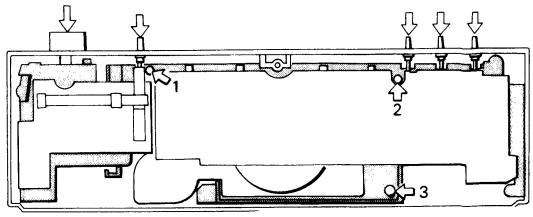


Fig. 3

3) Open the cassette lid and remove the main chassis. (See figure 4)

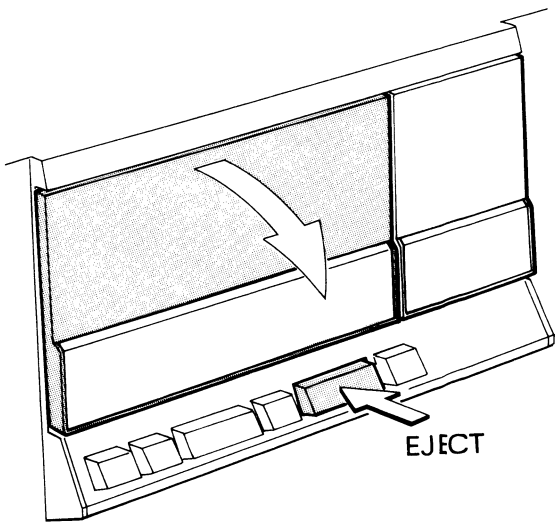
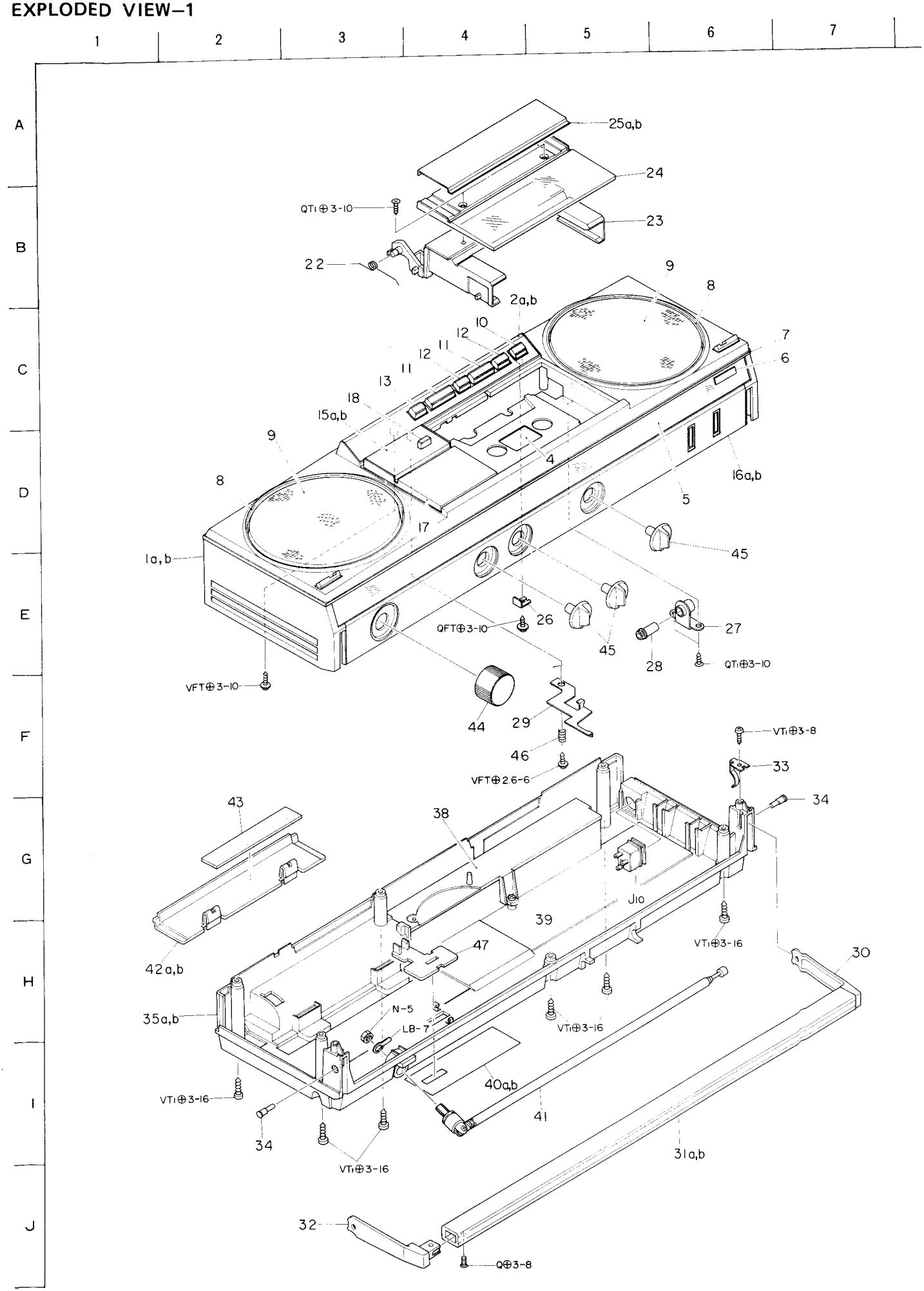


Fig. 4

Note: Be careful so that the panel is not damaged by the tuning shaft when installing the main chassis again.

☆ **MEMO** ☆

EXPLODED VIEW–1



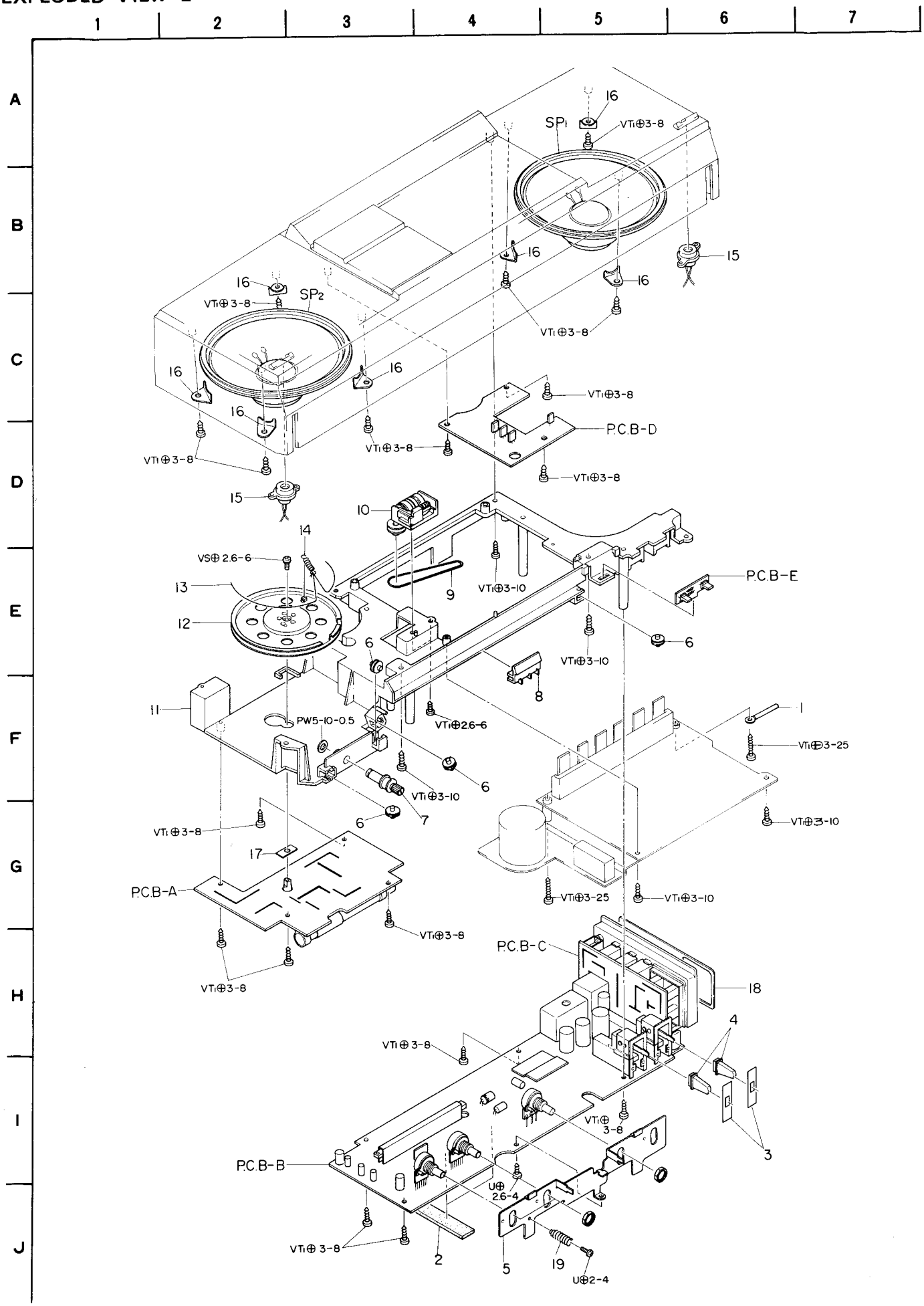
PARTS LIST

MECHANICAL PARTS

■ *mark in this part list shows exclusive part.

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1 ~ 21	09-017-890-01		Main cabinet ass'y (H, HU, HG model only)	*	1
1 ~ 21	09-017-889-01		Main cabinet ass'y (BH, BHU, BHG model only)	*	1
1-1a	82-595-001-01		Cabinet S. Main (H, HU, HG model only)	*	1
1-1b	82-595-056-01		Cabinet B, Main (BH, BHU, BHG model only)	*	1
1-2a	82-595-093-01		Control panel ass'y (H, HU, HG model only)	*	1
1-2b	82-595-094-01		Control panel ass'y (BH, BHU, BHG model only)	*	1
1-3	82-595-248-01		Plats, LED	*	1
1-4	82-386-033-01		Label, Tape indicator		1
1-5	82-595-029-01		Window, Dial H	*	1
1-6	82-595-015-01		Badge, AIWA	*	1
1-7	82-595-011-01		Heating	*	1
1-8	82-595-009-01		Ring Speaker	*	2
1-9	82-595-008-01		Panching, Speaker	*	2
1-10	82-595-016-11		Push-button, REC	*	1
1-11	82-595-022-11		Push-button A	*	2
1-12	82-595-023-11		Push-button B	*	2
1-13	82-595-017-11		Push-button, PAUSE	*	1
1-14	82-595-229-01		Push-button metal fitting ass'y	*	1
1-15a	82-595-047-01		Name, MS window (H, HU, HG model only)	*	1
1-15b	82-595-062-01		Name H. B., MS window (BH, BHU, BHG only)	*	1
1-16a	82-595-086-01		Top panel H ass'y (H, HU, HG model only)	*	1
1-16b	82-595-087-01		Top panel H B ass'y (BH, BHU, BHG model model)	*	1
1-17	82-595-046-01		MS window H	*	1
1-18	82-595-043-01		Push-button, RESET	*	1
1-19	87-321-096-01		QT_1 + 3 - 10		2
1-20	87-261-033-21		V + 2 - 4		4
1-21	87-450-411-01		LB - 1		1
1-22	82-591-214-01		T-spring, Cassette box		1
1-23	82-595-084-01		Cassette box ass'y	*	1
1-24	82-595-040-01		Cassette lid	*	1
1-25a	82-595-088-01		Cassette lid name ass'y (H, HU, HG model only)	*	1
1-25b	82-595-089-01		Cassette lid name B ass'y (BH, BHU, BHG model only)	*	1
1-26	82-541-235-01		Metal fitting, Tweeter		1
1-27	82-595-239-01		Oil damp metal fitting ass'y	*	1
1-28	82-534-264-01		Gear, Oil damp	*	1
1-29	82-595-220-21		P-spring, Counter reset	*	1
1-30	82-576-094-01		Metal fitting L, Carrying handle	CS-350	1
1-31a	82-595-010-11		Handle grip (H, HU, HG model only)	*	1
1-31b	82-595-059-01		Handle grip (BH, BHU, BHG model only)	*	1
1-32	82-576-093-01		Metal fitting R, Carrying handle	CS350	1
1-33	82-595-225-01		Plate spring, Carrying handle	*	1
1-34	82-595-214-01		Shaft, Carrying	*	2
35 ~ 39	09-017-872-01		Back cover ass'y (H, HU, HG model only)	*	1
35 ~ 39	09-017-891-01		Back cover ass'y (BH, BHU, BHG model only)	*	1
1-35a	82-595-002-11		Cabinet, Rear (H, HU, HG model only)	*	1
1-35b	82-595-057-11		Cabinet, Rear (BH, BHU, BHG model only)	*	1
1-36	82-576-236-01		Spring, Battery	*	1
1-37	87-038-032-01		Terminal plate, Battery		2
1-38	82-595-018-01		Holder, Battery	*	1
1-39	87-351-095-21		VT_1 + 3 - 8		2
1-40a	82-595-028-01		Name plate, Spec. (H, HU, HG model only)	*	1
1-40b	82-595-064-01		Name plate, Spec. (BH, BHU, BHG model only)	*	1
1-41	87-043-040-01		Whip antenna		1
1-42a	82-595-007-01		Battery room lid (H, HU, HG model only)	*	1
1-42b	82-595-058-01		Battery room lid (BH, BHU, BHG model only)	*	1
1-43	82-595-247-01		M cushion, Battery room lid	*	1
1-44	82-595-019-01		Knob, TUNING	*	1
1-45	82-591-027-21		Knob, VOLUME	CS-W7	3
1-46	82-595-241-01		C-spring, RESET	*	1
1-47	82-595-068-01		Knob, BAND	*	1

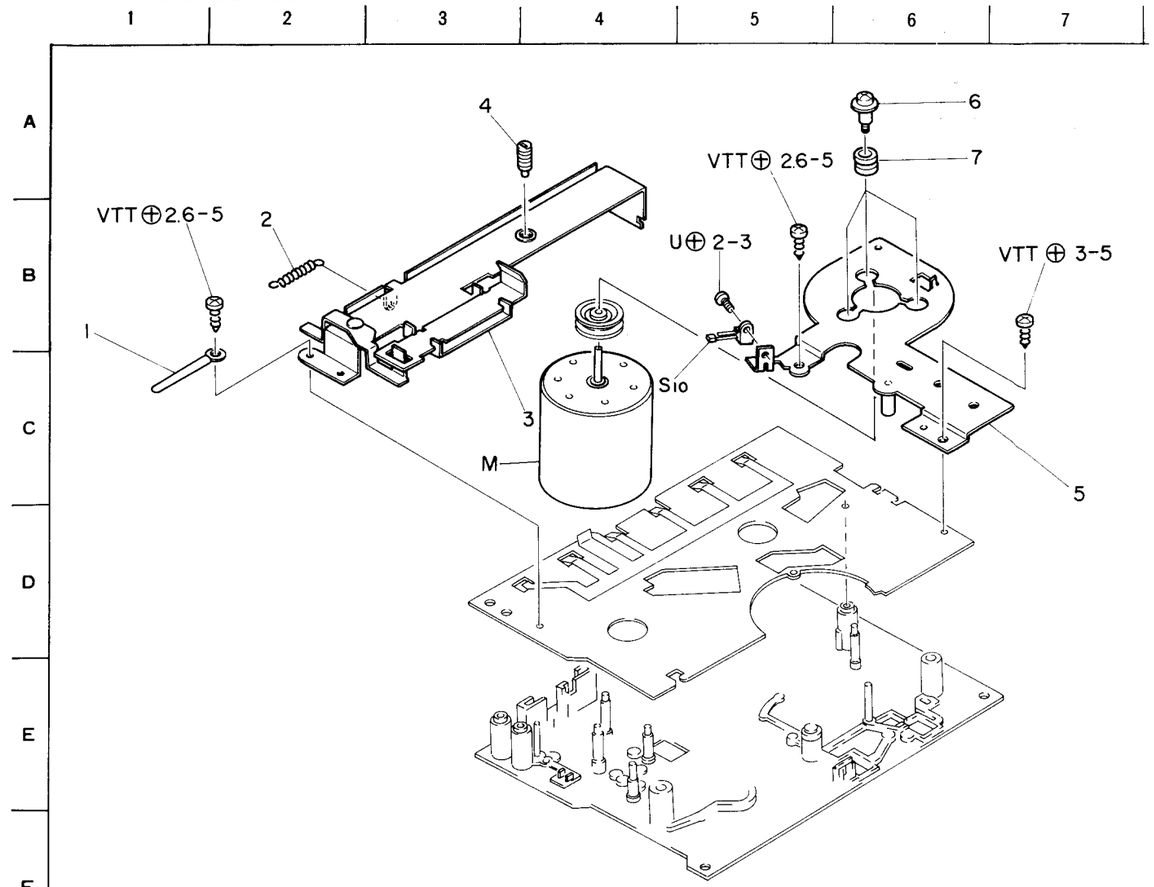
EXPLODED VIEW–2



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	87-038-309-01		Wire binder		1
2-2	87-063-113-01		Cushion WA		2
2-3	82-576-233-01		Himeron cloth	CS-350	2
2-4	82-595-042-01		Knob, Toggle	*	2
2-5	82-595-205-11		Holder, Volume	*	1
2-6	82-439-317-01		Roller	TPR-300	4
2-7	82-595-212-11		Shaft, Tuning	*	1
2-8	82-595-013-01		Pointer, Tuning	*	1
2-9	82-595-221-01		Counter belt	*	1
2-10	87-040-152-01		Counter		1
2-11	82-595-201-11		Chassis, Main	*	1
2-12	82-570-204-21		Drum, Dial		1
2-13	87-096-045-01		String, Dial		1
2-14	82-595-242-01		E-spring, Dial	*	1
2-15	87-064-097-01		Holder, ECM 30M		2
2-16	82-595-237-01		Metal fitting, Speaker	*	7
2-17	82-588-216-01		Label 4.2 x 15	CS-770	1
2-18	82-595-027-01		Jack plate H	*	1
2-19	82-595-234-01		C-spring, Earth	*	1

EXPLODED VIEW—3

As the MD-3 Mechanism is adopted in this model, the exploded view is omitted--- See the supplement MD-3 Mechanism manual in case of repair and parts order.
The following is the exploded view of the exclusive mechanism and the motor attachments. The part-code list of such is described as well.



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
3-1	87-038-039-01		Wire binder		1
3-2	82-591-349-01		E-spring, REC selector	CS-W7	1
3-3	82-595-222-21		Flywheel bearing plate ass'y	*	1
3-4	82-565-273-01		Thrust screw		1
3-5	82-595-202-01		Holder, Motor	*	1
3-6	87-081-483-01		Motor screw, M2.6		3
3-7	87-087-029-01		Rubber cushion		3

CS-360 H,BH,HU,BHU HG,BHG CS-360 H,BH,HU,BHU HG,BHG

ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1	82-595-855-01		Printed indiv., Packing	*	1	
2	82-595-852-01		Cushion L, Printed indiv.	*	1	
3	82-595-853-01		Cushion R, Printed indiv.	*	1	
4	82-576-863-01		Pad. Auxiliary	CS0350	1	
5	87-056-606-61		Poly-vinyl sack		1	
6	82-595-904-01		Instructions booklet	*	1	
7	87-051-171-11		Poly-vinyl sack		1	
8	87-056-009-51		Distributors list (H, BH, HG, BHG model only)		1	
9 a	87-056-045-01		Guarantee card U (HU, BHU model only)		1	
9 b	87-056-059-01		Guarantee card G (HG, BHG model only)		1	
10	87-056-050-01		Safety instruction (HU, BHU model only)		1	
11	87-056-057-01		Service station list (HU, BHU model only)		1	
12	82-916-750-01		Tape cassette, DMC-165		1	
13	86-481-801-01		AC adapter, AC-903H (H, BH model only)		1	
14	86-481-805-01		AC adapter AC-903HU (HU, BHU model only)		1	
15	87-032-845-01		Siemens plug (H, BH model only)		1	

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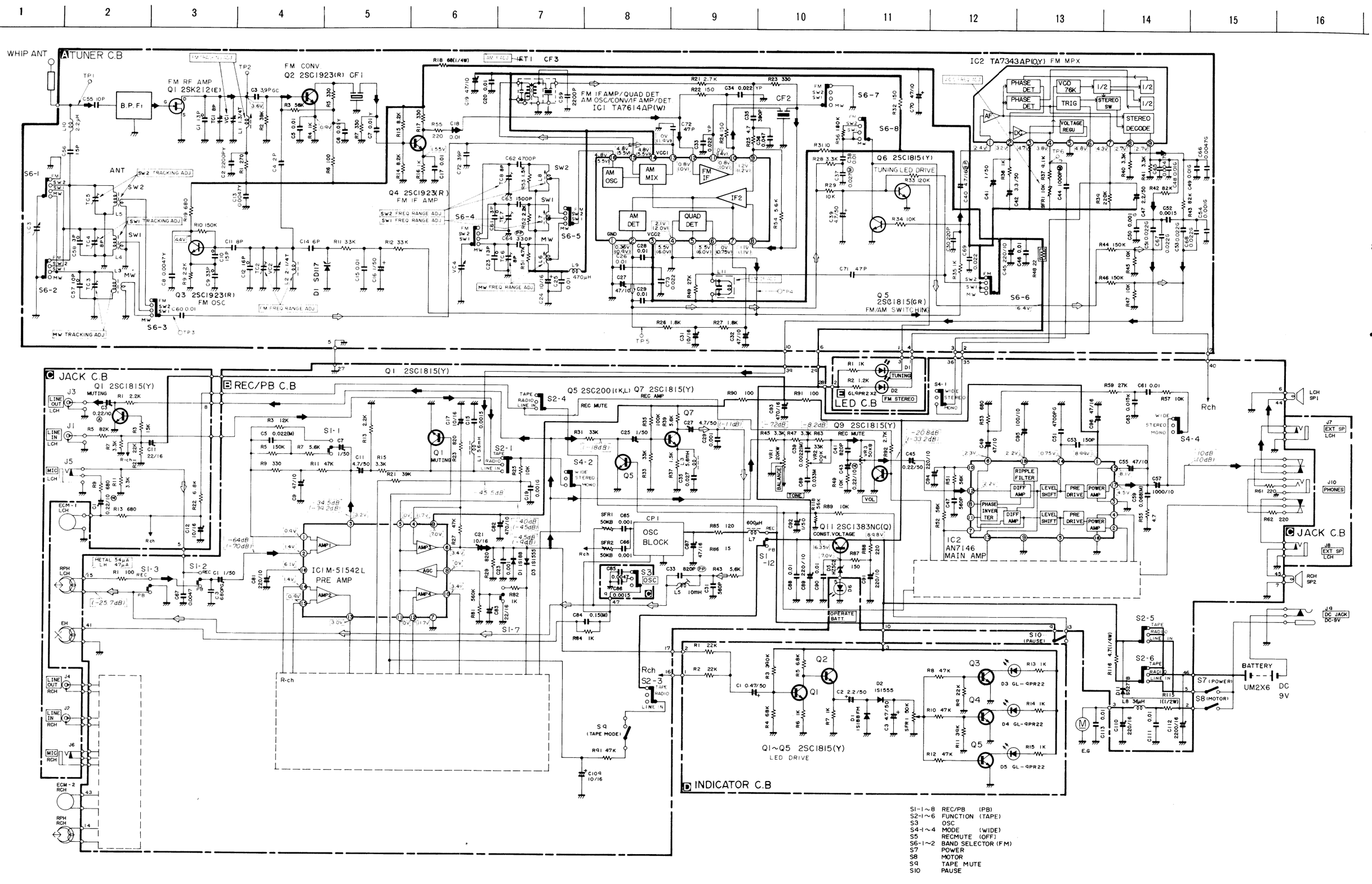
CS-360	H,BH,HU,BHU HG, BHG
CS-360	H,BH,HU,BHU HG,BHG
CS-360	H,BH,UH,BHU HG,BHG

SCHEMATIC DIAGRAM



CS-360	H,BH,HU,BHU HG,BHG	CS-360	H,BH,UH,BHU HG,BHG

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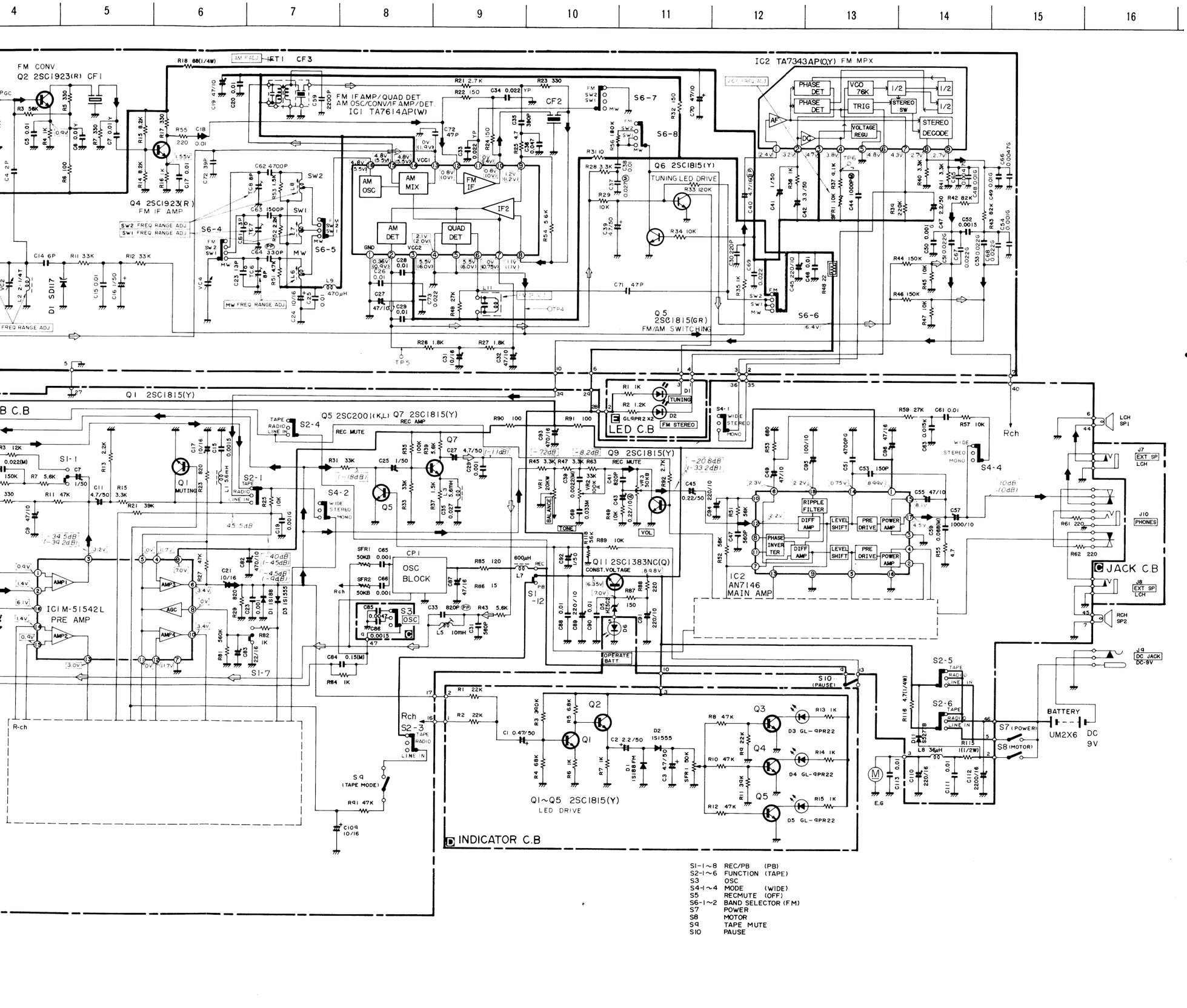
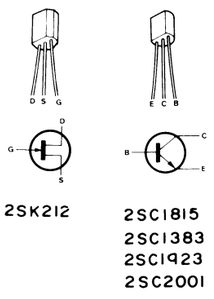


NOTES:

1) ■ B (+) power supply
2) ➡ Signal path
   Rec path, AM signal path.
3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals.
   But ( ) is with AM reception or recording.
   An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
4) Resistors with no designation have a rated power of 1/8W and a tolerance of ±5%.
5) Capacitors with no designation have a dielectirc strneght of less than 50WV.
6) The only capacitor tolerance indicated are ±5% (J) and ±10% (K).
7) Ceramic capacitor symbols:
   - For temperature compensation (SL)
   - High dielectric constant system (YY)
   - High dielectric constant system (YW, YP, YZ)
8) Explanation of symbols
   - (M) Mylar capacitor
   - (A) Aluminum solid capacitor
   - (PP) Polypropylene film capacitor
   - (BP) Bi-polarized capacitor
   - Fuse resistor
   - Nonflammable resistor

• This schematic diagram is subject to change without notice in the interests of improved performance.



ELECTRICAL MAIN PARTS LIST

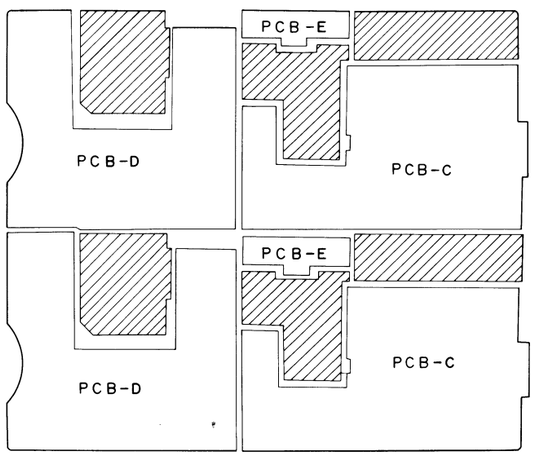
Symbol No.	Part No.	Description
≪TUNER CIRCUIT BOARD SECTION≫		
PCB-A	82-576-672-11	Tuner circuit board
IC1	87-027-766-01	IC, TA7614AP (W)
IC2	87-027-867-01	IC, TA7343P
Q1	87-026-183-01	FET, 2SK212 (E)
Q2,3,4	89-319-232-01	Transistor, 2SC1923 (R)
Q5	89-318-155-01	Transistor, 2SC1815 (GR)
Q6	89-318-154-01	Transistor, 2SC1815 (Y)
D1	87-017-004-01	Diode, SD-117
L1	87-006-016-01	FM antenna coil, 1-3/4t
L2	87-006-017-01	FM OSC coil, 2-1/4t
L3,4	82-576-648-01	MW, SW_1 bar antenna coil
L5	82-576-650-01	SW_2 antenna coil
L6	87-007-098-01	MW OSC coil
L7	82-576-679-01	SW_1 OSC coil
L8	82-576-680-01	SW_2 OSC coil
L9	87-003-051-01	Choke coil, 470μH
L10	88-005-121-01	Choke coil, 2.2μH
L11	87-008-195-01	FM quad coil
BPF1	87-030-082-01	FM band pass filter
CF1,2	87-008-153-01	FM ceramic fileter, 230K
CF3	87-008-231-01	AM ceramic filter
IFT1	87-008-232-01	AM IFT
VC1,2,3,4 TC2,3,5,7	87-011-120-01	PVC
TC1,4,6,8	87-011-126-01	Trimmer, 8PF
S6	82-576-671-01	Slide switch (BAND SELECTOR)
SFR1	87-021-677-01	Semi-fixed resistor, 10kΩ-B
		< **Resistor** >
R48	87-029-057-01	22Ω Nonflammable
		< **Capacitors** >
C40	87-015-464-01	4.7μF 16V Electrolytic BP
C63	87-014-033-01	100PF PP
C64	87-014-045-01	330PF PP
≪REC/PB CIRCUIT BOARD SECTION≫		
PCB-B	82-595-601-21	REC/PB circuit board
IC1	82-027-714-01	IC, M51542L
IC2	87-027-540-01	IC, AN7146
Q1,2,7,8 9,10	89-318-154-01	Transistor, 2SC1815 (Y)
Q5,6	89-320-011-21	Transistor, 2SC2001 (K, L)
Q11	89-313-835-01	Transistor, 2SC1383NC (Q)
D1,2	88-052-188-11	Diode, 1S188 (FM)
D3,4	87-027-097-01	Diode, 1S1555
D5	87-027-555-01	Zener diode, HZ5C2
D11	87-027-365-01	Diode, S5277B
L1,2,3,4	87-005-088-01	Micro inductor coil, 5.6mH
L5,6	82-595-619-01	Trap coil
L7	82-401-661-01	Choke coil, 600μH
L8	87-003-065-01	Choke coil, 36μH
VR1	82-595-610-01	Volume, 20kΩ-W (BALANCE)
VR2	82-595-608-01	Volume, 100kΩ-A (TONE)
VR3	82-595-607-01	Volume, 50kΩ-B (VOLUME)
J10	87-049-061-01	Jack, 6.3φ (PHONES)
S1	87-031-656-01	Slide switch (REC/PB)
S2	82-595-611-01	Slide switch lever (FUNCTION)
S4	82-595-612-01	Slide switch lever (MODE)
SFR1,2	87-021-307-01	Semi-fixed resistor, 50kΩ-B
CP1	82-595-627-01	OSC block
	87-033-144-01	Pin, 1φ

Symbol No.	Part No.	Description
		< **Capacitors** >
C82,102	87-015-660-01	470μF 10V Electrolytic
C33,34	87-014-055-81	820PF PP
C43,44	87-015-312-01	0.22μF 10V Aluminum solid
≪JACK CIRCUIT BOARD SECTION≫		
PCB-C	*	Jack circuit board
Q1,2	89-318-154-01	Transistor, 2SC1815 (Y)
J1,2,3,4, 5,6,7,8	82-595-628-01	Jack plate ass'y (LINE OUT, LINE IN, MIC, EXT-SP)
S3	82-576-610-01	Slide switch (OSC)
		< **Capacitor** >
C1,2,3,4	87-015-312-01	0.22μF 10V Aluminum solid
≪INDICATOR CIRCUIT BOARD SECTION≫		
PCB-D	*	LED-2 circuit board
Q1,2,3,4,5	89-318-154-01	Transistor, 2SC1815 (Y)
D1	88-052-188-11	Diode, 1S188 (FM)
D2	87-027-097-01	Diode, 1S1555
D3,4,5,6	87-027-716-01	LED, GL9PR22 (LEVEL, OPERATE/BATT)
≪LED CIRCUIT BOARD SECTION≫		
PCB-E	*	LED-1 circuit board
D1,2	87-027-354-01	LED, GL9PR2
≪MISCELLANEOUS≫		
RPH	87-046-209-01	REC/PB head
EH	87-046-210-01	Erase head
M	87-045-176-01	Motor
SP1,2	82-595-615-01	Speaker
ECM1,2	87-041-016-01	MIC, ECM B3
J9	87-049-008-01	DC jack
S7	87-031-537-01	Micro switch (MAIN)
S8,10	87-031-548-01	Leaf switch (MOTOR, PAUSE)
S9	87-031-649-01	Leaf switch (TAPE MUTE)
	82-576-638-01	ANT lead
	82-595-626-01	ANT earth

Note; Combination Circuit Board

The parts on the electrical parts list which are indicated by an asterisk (*) are supplied as one single combined circuit board. Therefore, they will not be supplied separately. If this becomes necessary, please order the entire circuit board.

Combination circuit board 82-595-629-01



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WIRING–1

NOTES (1) B(+) Pattern Others pattern
(2) The voltage is the reference value measured with a tester (20
An asterisk (*) indicates that the value was measured with a

4. Bias Current Adjustment
Settings:
- Recording mode
- Test point: TP1 (L-ch), TP2 (R-ch)
- TAPE SELECTOR switch: LH (NORMAL)
- Adjustment location: SFR1 (L-ch)
  SFR2 (R-ch)

Method:
Adjust SFR1, 2 so that the voltage at test point 1, 2 is 35 mV (350 μA).
Rated:
- LH tape: 35 mV (350 μA)
- METAL tape: 75 ~ 80 mV (750 ~ 800 μA)

2. Tape Speed Adjustment
- Adjustment location: SFR of motor

1. Azimuth Adjustment
- Adjustment location: Azimuth adjusting screw

A TUNER C.B (ANTENNA EARTH)
SP1 (L ch)
SP2 (Rch)
B REC/PB C.B
C JACK C.B
J10 PHONES
J9 DC JACK
BATT UM2 X 6 DC9V
S7 (POWER SW)
S8 (MOTOR SW)
S10 (PAUSE SW)
M C113
RPH
CP1 (OSC UNIT)
SFR1
SFR2
IC2
4.5V 8.1V 0.75V 2.2V 2.3V
2.2V 2.3V
6.35V 7V 8.98V
Q1 Q2 Q5 Q6 Q7 Q8 Q11
D1 D2 D3 D4 D5
L2 L3 L6 L7 L8
S1 REC/PB (PB → REC)
VR1 BALANCE
C6~8
(R) ECM (L)
E.H
S9 (MUTING SW)
S2 FUNCTION
S4 MODE
TAPE RADIO LINE IN
WIDE STEREO MONO
TUNING FM STEREO
A TUNER C.B

NOTES (1) B(+) Pattern Others pattern

(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.
An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.

2. Tape Speed Adjustment
- Adjustment location: SFR of motor

1. Azimuth Adjustment
- Adjustment location: Azimuth adjusting screw

3. Bias Trap Coil Adjustment
Settings:
- Recording mode
- Test point: TP1 (L-ch), TP2 (R-ch)
- OSC switch: "–" position
- TAPE SELECTOR switch: METAL
- Adjustment locations: L5 (L-ch)
  L6 (R-ch)

Method:
Adjust L5, 6 so that the voltage at test point 1,2 is brought to its maximum value.

TP2	BIAS TEST POINT (L-ch)
TP1	BIAS TEST POINT (R-ch)

SP1 (L ch) SP2 (Rch) ANTENNA EARTH) nt 1, 2

S7 (POWER SW) S8 (MOTOR SW) S10 (PAUSE SW) M C113 RPH

B REC/PB C.B

D INDICATOR C.B

J10 PHONES

CP1 (OSC UNIT)

IC1 IC2

S1 REC/PB PB ⟷ REC

VR1 BALANCE VR2 TONE VR3 VOLUME

C JACK C.B

A TUNER C.B

E.H

S2 FUNCTION S4 MODE

TAPE RADIO LINE IN WIDE STEREO MONO

TUNING FM STEREO D1 D2

Q1 Q2 Q5 Q6 Q7 Q9 Q10 Q11

CS-360 H,BH,UH,BHU HG,BHG

CS-360 H,BH,HU,BHU HG,BHG

CS-360 H,BH,HU,BHU HG,BHG

NOTES (1) B(+) Pattern Others pattern

(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals. But ( ) is with AM reception.

WIRING–2

SW1 Tracking Adj.
- L4 ..... 2.3 MHz
- TC4 ..... 7.0 MHz

SW2 Tracking Adj.
- L5 ..... 7.0 MHz
- TC5 ..... 22.0 MHz

TP3 | AM IF Input

AM IF Adj.
- IFT1 ..... 468 kHz

FM Freq. Range Adjustment
- L2 ..... 87 MHz
- TC2 ..... 109 MHz

TP2 | FM IF Input

FM Tracking Adjustment
- L1 ..... 88.0 MHz
- TC1 ..... 108.0 MHz

MW Freq. Range Adj.
- L6 ..... 515 kHz
- TC6 ..... 1,650 kHz

TP1 | FM RF Input

MW Tracking Adjustment
- L3 ..... 600 kHz
- TC3 ..... 1,440 kHz

SW1 Freq. Range Adj.
- L7 ..... 2.1 MHz
- TC7 ..... 7.3 MHz

SW2 Freq. Range Adj.
- L8 ..... 6.8 MHz
- TC8 ..... 22.5 MHz

WHIP ANTENNA

TP5 | AM DET Output

TP4 | FM DET Output

FM IF Adjustment
- L11 ..... 10.7 MHz

TP6 | V.C.O. Freq. Test Point

V.C.O. Frequency Adjustment
Settings:
- Adjustment location: SFR1

Method:
Adjust SFR1 so that the frequency become 76 kHz ± 100 Hz.

IC1

1	———	9	1.2V (1.2V)
2	0.36V(0.9V)	10	0.8V (0V)
3	5.5V(6.0V)	11	0V (1.4V)
4	2.1V(2.0V)	12	0.8V(0V)
5	———	13	0V (1.9V)
6	5.5V(6.0V)	14	4.8V(5.5V)
7	0V (0.75V)	15	4.8V(5.5V)
8	1.1V (1.1V)	16	4.8 (5.5V)

A TUNER C.B

IC2

1	2.4V
2	3.2V
3	4.7V
4	3.8V
5	———
6	4.8V
7	4.3V
8	2.7V
9	2.7V

WHT → B32
GRN → B35
GRN → B36
BLU → B34
BLK → B27
RED → B29
BRN → B40
YEL → B39

B REC/PB C.B

S3 OSC

J7,8 EXT SP

J8(R)

J7(L)

BRN → B47

C JACK C.B

D INDICATOR C.B

OPE

PEAK

SPEAKER TERMINAL

S6 BAND SELECTOR

L4 SW1 BAR ANTENNA

L3 MW BAR ANTENNA

TC7 (SW1 OSC TRIMMER)

TC3 (MW ANT TRIMMER)

TC2 (FM OSC TRIMMER)

TC5 (SW2 ANT TRIMMER)

6. LED Indicator Adjustment
Settings:
- Test tape: TTA-161
- Adjustment location: SFR1

Method:
Adjust SFR1 so that the LED (0 dB) lights up.

CS-360	H,BH,HU,BHU HG,BHG	CS-360	H,BH,HU,BHU HG,BHG

AIWA

(1) B(+) Pattern Others pattern

(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.
But ( ) is with AM reception.

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

WHIP ANTENNA

TP5	AM DET Output

TP4	FM DET Output

FM IF Adjustment
L11 ..... 10.7 MHz

TP6	V.C.O. Freq. Test Point

V.C.O. Frequency Adjustment
Settings:
- Adjustment location: SFR1

Method:
Adjust SFR1 so that the frequency become 76 kHz ± 100 Hz.

IC1

1	———	9	1.2V (1.2V)
2	0.36V (0.09V)	10	0.8V (0V)
3	5.5V (6.0V)	11	0V (1.4V)
4	2.1V (2.0V)	12	0.8V (0V)
5	———	13	0V (1.9V)
6	5.5V (6.0V)	14	4.8V (5.5V)
7	0V (0.75V)	15	4.8V (5.5V)
8	1.1V (1.1V)	16	4.8 (5.5V)

IC2

1	2.4V
2	3.2V
3	4.7V
4	3.8V
5	———
6	4.8V
7	4.3V
8	2.7V
9	2.7V

A TUNER C.B

WHT → B32
GRN → B35
GRN → B36
BLU → B34
BLK → B27
RED → B29
BRN → B40
YEL → B39

→ B REC/PB C.B

S6
BAND SELECTOR

SPEAKER TERMINAL

L4 SWI BAR ANTENNA

L3 MW BAR ANTENNA

TC3 (MW ANT TRIMMER)

TC2 (FM OSC TRIMMER)

7 TRIMMER)

5 RIMMER)

S3 OSC | J7,8 EXT SP | J5,6 MIC | J3,4 LINE OUT | J1,2 LINE IN

C JACK C.B

RED
WHT
RED
WHT
BRN
BLU
GRN
B47
B19 B18

→ B REC/PB C.B

D INDICATOR C.B

WHT → B16
WHT → B17
RED → B10
BLK → B12
YEL → B11

→ B REC/PB C.B

OPERATE/BATT

PEAK

6. LED Indicator Adjustment
Settings:
- Test tape: TTA-161
- Adjustment location: SFR1

Method:
Adjust SFR1 so that the LED (0 dB) lights up.